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APPLICATION NO.		F	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
	10/821,133	21,133 04/08/2004		Joachim Ernst Kramer	P06294US02 - PHI 1445	8951
	27142 7590 07/13/2006				EXAMINER	
			EES & SEASE,	IBRAHIM, MEDINA AHMED		
ATTN: PIONEER HI-BRED 801 GRAND AVENUE, SUITE 3200					ART UNIT	PAPER NUMBER
	DES MOINES, IA 50309-2721				1638	

DATE MAILED: 07/13/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/821,133	KRAMER, JOACHIM ERNST	
Office Action Summary	Examiner	Art Unit	
	Medina A. Ibrahim	1638	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timulated and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on 19 Ap This action is FINAL. 2b) ☐ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro		
Disposition of Claims			
4) ☐ Claim(s) <u>1-36</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) <u>15 and 16</u> is/are allowed. 6) ☐ Claim(s) <u>1-14 and 17-36</u> is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	vn from consideration.		
9) The specification is objected to by the Examine	•		
10) The drawing(s) filed on is/are: a) acce		Examiner.	
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correcting 11) The oath or declaration is objected to by the Ex			
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been received (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachment(s) 1) X Notice of References Cited (PTO-892)	4) Interview Summary		
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	Paper No(s)/Mail Da		

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DETAILED ACTION

Applicant's response filed 04/19/06 in reply to the Office action of 12/19/05 has been entered. The terminal disclaimer filed on 01/05/06 disclaiming the terminal portion of any patent granted on this application which would extend beyond the expiration date of US pat 6,756,530 has been reviewed and is accepted. The terminal disclaimer has been recorded.

All previous objections and rejections not set forth below have been withdrawn in view of Applicant's amendment and/or upon further consideration. This Office action contains NEW GROUNDS of rejection and Rule 105 (see Attachment) not necessitated by Applicant's amendment, therefore, is made NON-Final. Any inconvenience is regretted.

Claims 1-36 are pending and are examined.

Written Description

Claims 1-14 and 17-36 are rejected under 35 U.S.C. 112, first paragraph, as containing subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention. This rejection is repeated for the reasons of record as set forth in the last Office action of 12/19/05.

Applicant's arguments filed 04/19/06 have been considered but are not deemed persuasive for the reasons of record. Applicant cites the decision in Ex parte Carison (B.P.A.I. 2005) to support written description of any hybrid seed/plant produced from

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inbred line PH951. This is not persuasive because the decision by the Board is unpublished opinion, therefore, cannot be cited as precedent. Applicant's arguments regarding deposit of the inbred seed and the cited *Enzo Biochem*. Inc., (323 F3d at 965, 63 U.S.P.Q. 2d at 1613(2002)); and Eli Lilly (1997) have been addressed in the previous Office action of 12/19/05 and will not be repeated in this Office action.

Applicant cites Sharopova et al (Plant Mol Biol. 48 (5-6):463-481(2002)) and Lee et al (Plant Mol Biol. 48 (5-6):463-481(2002)) to show the availability of marker information including primer sequences and map information, and uses thereof. This is not found persuasive because the development and mapping of SSR markers having no known linked trait would not provide adequate written description for hybrid seed/plants produced from inbred parent lines with unknown genetic complement. The instant specification provides the SSR profiles of the exemplified variety only. The SSR profiles of all other second inbred parents involved in the breeding are unknown. In addition, the rejected claims are drawn to hybrid seed and plants and methods of using said seed/plant rather than methods of using SSR to identify progeny plants inbred. Therefore, for all the reasons discussed above and in the last Office action, the claimed invention lacks adequate written description.

Claim Rejections - 35 USC § 102/103

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

⁽b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-14 and 17-36 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Loisel, Thierry (US Pat. 5,773, 684)

The claims are drawn to seed comprising at least one set of chromosomes of inbred maize PH951, plant produced from said seed; hybrid corn plant/seed produced by crossing the inbred line PH951 with plants of another inbred line, and a method for using said hybrid plants/seeds to produce further subsequent generation plants/seed. The claims are also drawn to various breeding techniques used to generate corn plants/seeds.

Loisel teaches hybrid maize designated 39B42, seed and plant of said hybrid; maize plant derived from said hybrid, and a method of producing hybrid seed/plant comprising in its material a transgene that confers male sterility or resistance to herbicide or diseases. The cited reference teaches the development of hybrid maize variety by using maize plant breeding programs involving selection of plants from various germoplasm pools, selfing or crossing of the selected plants to produce inbred and hybrid lines. The cited reference also teaches backcrossing and pedigree breeding,

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genetic marker enhanced selection and transformation methods to transfer a desirable trait between plants (see at least columns 1-5). The seed and plants of the instant claims and those of the prior art share morphological and agronomic characteristics such as dark green leaves; purple anther; pendant ear position, medium husk extension; average ear taper; homozygous yellow aleurone; red cob; resistance to Fusarium and Gibberella; and resistance to European corn borer (see columns 13-16). Given all these similarities between the prior art hybrid plant/seed and parent inbred PH951, the prior art corn and seed would comprise at least one set of chromosomes of the inbred line PH951. Therefore, the claimed seed/plant and those of the prior art are indistinguishable. The Examiner does not have sufficient facts to determine whether the corn plant and seeds are inherently the same and cannot conclude that the claimed subject matter would have been obvious since it cannot be determined whether the corn plants differ. Where the prior art product seems to be identical, except that the prior art is silent to a characteristic or property claimed, then the burden shifts to Applicant to provide evidence that the prior art would neither anticipate nor render obvious the claimed invention. See In re Best 195 USPQ 430, 433(CCPA 1977).

Remarks

Claims 13-16 are free of the prior art of record.

Claims 15 and 16 are allowable.

Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Medina A. Ibrahim whose telephone number is (571)

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272-0797. The Examiner can normally be reached Monday -Thursday from 8:00AM to 5:30PM and every other Friday from 9:00AM to 5:00 PM. Before and after final responses should be directed to fax nos. (703) 872-9306 and (703) 872-9307, respectively.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Anne Marie Grunberg, can be reached at (571) 272-0975.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

7/5/06 Mai

> MEDINA A. IBRAHIM PRIMARY EXAMINER

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REQUEST FOR INFORMATION UNDER 37 CFR § 1.105

- 1. Applicant and the assignee of this application are required under 37 CFR 1.105 to provide the following information that the examiner has determined is reasonably necessary to the examination of this application.
- 2. This request is being made for the following reasons:

Applicant is claiming seed/plant comprising at least a set of chromosomes of inbred line PH951; hybrid maize seed/plant produced by crossing maize plants of inbred line PH951 with plants of another different maize inbred line and plant comprising at least 95% of the alleles of inbred line PH951. However, the specification is silent about what starting materials and methods were used to produce line PH951. The requested information is required to make a meaningful and complete search of the prior art.

- 3. In response to this requirement, please provide answers to each of the following interrogatories eliciting factual information:
- (i) What were (are) the original parental corn lines used to produce inbred line PH951. Please supply all designations/denominations used for the original parent lines and any corn variety produced using said original parental lines. Please supply information pertaining to the lineage of the original parental lines back to any publicly available varieties.
 - (ii) What method and method steps were used to produce corn line PH951?

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- (iii) At or before the time of filing of the instant application or any provisional application to which benefit is claimed, had any of said parental corn lines or progeny therefrom been disclosed or made publicly available? If so, under what designations/denomination and under what conditions were said parent corn lines or progeny disclosed or made publicly available and from when to when?
- (iv) At or before the time of filing of the instant application or any provisional application to which benefit is claimed, were any other corn lines produced by said method using said original parental corn lines, and if so, had said produced corn lines been publicly available or sold? If so, under what designations/denomination and under what conditions were said other corn lines disclosed or made publicly available and from when to when?
- 4. If Applicant views any or all of the above requested information as a <u>Trade</u>

 <u>Secret</u>, then Applicant should follow the guidance of MPEP § 724.02 when submitting the requested information.
- 5. In responding to those requirements that require copies of documents, where the document is a bound text or a single article over 50 pages, the requirement may be met by providing copies of those pages that provide the particular subject matter indicated in the requirement, or where such subject matter is not indicated, the subject matter found in applicant's disclosure. Please point to the specific sections where the relevant information can be found.
- 6. The fee and certification requirements of 37 CFR 1.97 are waived for those documents submitted in reply to this requirement. This waiver extends only to those

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documents within the scope of this requirement under 37 CFR 1.105 that are included in the applicant's first complete communication responding to this requirement. Any supplemental replies subsequent to the first communication responding to this requirement and any information disclosures beyond the scope of this requirement under 37 CFR 1.105 are subject to the fee and certification requirements of 37 CFR 1.97.

- 7. The applicant is reminded that the reply to this requirement must be made with candor and good faith under 37 CFR 1.56. Where the applicant does not have or cannot readily obtain an item of required information, a statement that the item is unknown or cannot be readily obtained may be accepted as a complete reply to the requirement for that item.
- 8. This requirement is an attachment of the enclosed Office action. A complete reply to the enclosed Office action must include a complete reply to this requirement.

 The time period for reply to this requirement coincides with the time period for reply to the enclosed Office action.

ANNE MARIE GRUNBEHG
SUPERVISORY PATENT EXAMINER